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Amendments to the Specification

Please replace the paragraph on page 6 (lines 12-16) in the specification with the following amended paragraph:

Although system 100 is shown with only three functional units coupled to the bus 155, other embodiments are possible with a wide range of possible numbers of units coupled to the bus. Further, although system 100 is shown to be implemented on a single integrated circuit die, other embodiments are possible where the bus 155 is used to ~~coupled~~ couple together discrete devices.

Please replace paragraph on page 7 (lines 16-19) in the specification with the following amended paragraph:

The arbitration and bus clock control unit 150 can use average utilization over time or use other statistical methods to ~~determined~~ determine sustained bandwidth needs. The recognition interval may be short enough (perhaps 1-10us) to handle short bursts of activity such as that from a hard disk drive controller.